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Laboratory Item No. 262

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MARTIN WEISS
Geoscience Branch
National Oceanographic Data Center
Washington, D. C. 20390

A SUMMARY OF ENGINEERING PROPERTIES, SIZE AND COMPOSITION
ANALYSES OF CORES FROM EXUMA SOUND, MAY 1965

Engineering Properties

Prepared by: Doug Huddell
John Coleman

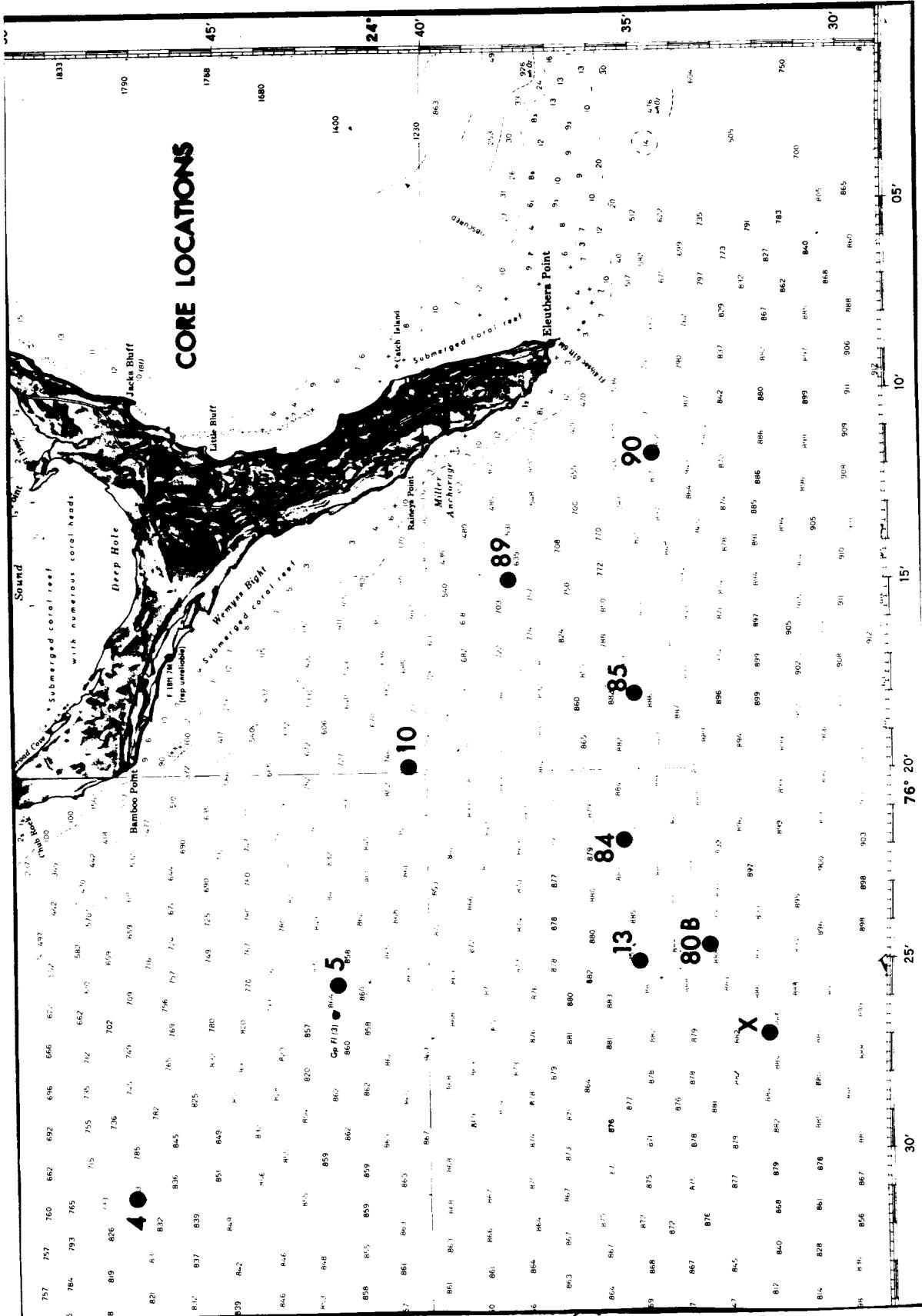
Size and Composition

Prepared by: Linda Glover
Doug Huddell
Mallie Myer

September 1965

Geological Laboratory Branch
Ocean Survey Division
Oceanographic Surveys Dept.

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EXPLANATION OF COMPUTER DATA SHEET SEDIMENT SIZE AND COMPOSITION

Results of sediment-size and -composition core analysis performed by the U. S. Naval Oceanographic Office Geological Laboratory are tabulated on Computer Data Sheet Sediment Size and Composition.

The following is an explanation of the terms employed on the Computer Data Sheet:

1. CRUISE. A number assigned to each cruise for identification purposes.

2. SAMPLE. A consecutive number applied to each core taken successively throughout the cruise.

3. LATITUDE. Expressed in degrees, minutes, and tenths of minutes.

4. LONGITUDE. Expressed in degrees, minutes, and tenths of minutes.

5. TAKEN. Date in ~~month, day~~, ^{day, month} and year that core was taken.

6. CORER TYPE. Number corresponding to sampling device code below.

- | | |
|-------------------------|----------------|
| 1. Hydroplastic piston | 6. Orange Peel |
| 2. Hydroplastic gravity | 7. Ewing |
| 3. Kullenberg piston | 8. Vibrocorer |
| 4. Kullenberg gravity | 9. Dredge |
| 5. Phleger gravity | 0. Other |

7. LENGTH. Length of core recorded in centimeters as observed in the laboratory.

8. PENETRATION. Penetration of coring device recorded in centimeters as observed in the field.

9. DEPTH. The uncorrected sonic sounding recorded in meters.

10. ANALYZED. Date in ~~month, day~~, ^{day, month} and year that core was analyzed in the laboratory.

11. ID. NO.. Three digit laboratory project number followed by consecutive number assigned to each subsample analyzed.

12. INTERVAL. Interval of subsample as measured in centimeters from the top of the core.

13. MM. Particle diameter size intervals based on Wentworth size grades in millimeters.

14. PER. Percent of total sample weight within the given size interval.

15. GRAVEL, SAND, SILT, CLAY. Percent of total sample weight within the four size classes.

Class ranges are:
 Gravel - coarser than 2 mm
 Sand - 2 to 0.0625 mm
 Silt - 0.0625 to 0.0039 mm
 Clay - finer than 0.0039 mm

16. MEAN (MM). The geometric mean of the distribution expressed in millimeters.

17. MEAN (PHI). The logarithmic mean of the distribution expressed in phi units (-log₂ of the diameter in millimeters).

18. STAN DEV. Standard deviation. A measure of the degree of spread or dispersion of the distribution about the mean expressed in phi units.

$$\sigma = \sqrt{\frac{1}{\sum f} \sum f (X_i - \bar{X})^2 / 100}$$

19. SKEWNESS. A measure of the asymmetry of the distribution. Positive values denote skewness of the distribution toward the fine particles, negative values denote skewness toward the coarse particles. A normal distribution has a skewness of 0.

$$\alpha_3 = \frac{1}{100} \sigma^{-3} \sum f (X_i - \bar{X})^3$$

20. KURTOSIS. A measure of the peakedness of the distribution. Positive values denote a "leptokurtic" distribution, or a distribution more "peaked" than normal. Negative values denote a "platykurtic" distribution, or a distribution more "flat" than normal. A normal curve has a kurtosis of 0.

$$\alpha_4 = \frac{1}{100} \sigma^{-4} \sum f (X_i - \bar{X})^4 - 3$$

21. CACO₃. Percent calcium carbonate of the total sample weight as determined by the insoluble residue method.

22. ORG CARBON. Percent organic carbon of the total sample weight as determined by the Allison method.

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23. COLOR. Wet sediment color, based on the Geological Society of America Rock-Color Chart, as determined in the laboratory.
24. DOM MINERAL. Dominant mineral (s) comprising the sample assemblage.
25. SEC MINERAL. Secondary mineral (s) comprising the sample assemblage.

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**EXPLANATION OF DATA PAGES
CORE ANALYSIS SUMMARY SHEET
Engineering Properties
NAVOCEANO (EXP) 3167/18B (Rev. 1-63)**

Results of engineering properties, core analysis performed by the U. S. Naval Oceanographic Office Geological Laboratory are recorded on Core Analysis Summary Sheet Engineering Properties.

The following is a description of the terms employed on the Core Analysis Summary Sheet:

1. Cruise Number. A number assigned to each cruise for identification purposes.
2. Latitude. Expressed in degrees, minutes, and seconds.
3. Longitude. Expressed in degrees, minutes, and seconds.
4. Sample Number. A consecutive number, commencing with 1, applied to each core taken successively throughout the cruise.
5. Date Taken. Day (GMT), month, and year.
6. Water Depth (m). The uncorrected sonic sounding recorded in meters.
7. Type Corer. Identified by the name of device employed.
8. Core Length(cm). Recorded in centimeters as observed in the laboratory.
9. Core Penetration (cm). Recorded in centimeters as observed in the field.
10. Subsample Depth in Core (cm). Interval of subsample as measured in centimeters from the top of the core.
11. Wet Unit Weight (g/cm³). The weight (solids plus water) per unit volume of the sediment mass.
12. Specific Gravity of Solids. The ratio of weight in air of a given volume of a sediment at 20°C to the weight in air of an equal volume of distilled water at 20°C.
13. Water Content (% dry weight). The ratio, in percent, of the weight of water in a given mass of the sediment sample to the weight of the solid particles.

14. Void Ratio. The ratio of the volume of void spaces to the volume of solid particles in the sediment sample as computed from Wet Unit Weight, Specific Gravity of Solids, and Water Content.

15. Saturated Void Ratio. The Void Ratio at 100 percent saturation as computed from Water Content and Specific Gravity of Solids.

$$\text{Saturated Void Ratio} = \frac{\text{Water Content} \times \text{Specific Gravity of Solids}}{100}$$

16. Porosity (%). The ratio, usually expressed as a percentage, of the volume of voids of a sediment mass to the total volume of the sediment mass.

17. Liquid Limit. Water Content, in percent, at which a pat of sediment cut by a groove of standard dimension will flow together for a distance of 1/2 inch under the impact of 25 blows in a standard liquid limit apparatus.

18. Plastic Limit. Water Content, in percent, at which a sediment will just begin to crumble when rolled into a thread approximately 1/8 inch in diameter.

19. Plasticity Index. The numerical difference between the Liquid Limit and Plastic Limit of the sediment mass.

20. Liquidity Index. The ratio, expressed in percentage, of (1) the natural water content of the sediment sample minus its Plastic Limit to (2) its Plasticity Index.

21. Compression Index. The slope of the linear portion of the Pressure-Void Ratio curve on a semi-log plot.

22. Compressive Strength. The load per unit area required to shear an unconfined, natural or remolded, sediment mass.

23. Cohesion. The shearing strength per unit area under zero externally applied load.

24. Sensitivity. The ratio of the natural to the remolded strength. It is a measure of the loss of strength due to remolding the sediment mass.

25. Angle of Internal Friction ($^{\circ}$). The angle between the abscissa and the tangent of the curve representing the relationship of "shearing resistance" to "normal stress" acting within a sediment mass.

26. Activity. The ratio of the Plasticity Index to the clay fraction percentage (<.002 mm) of the sediment mass.

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27. Modulus of Elasticity. The ratio of stress to strain of the sediment mass.

28. Slump (%). The ratio, in percent, of the amount of height change immediately before the compressive strength test to the original height of a cylinder of sediment.

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ID. NO.	INTERVAL	MM	PER	PER	PER	PER	PER	PER	PER	PER	PER
262	7	• 262	8	• 262	9	262	10	262	11	262	11
60 -	67	70 -	77	78 -	84	84 -	86	86 -	90	86	- 90
MEAN	(MM)	0.0000	0.760	3.162	6.568	22.207					
MEAN	(PHI)	0.092	4.563	23.715	13.957	36.552					
SAND		0.092	4.563	19.960	16.420	19.310					
SILT		0.458	6.084	19.368	18.473	8.966					
CLAY		0.2500	1.832	11.027	11.265	3.724					
MEAN	(MM)	0.1250	4.121	17.110	7.510	13.957	2.897				
MEAN	(PHI)	0.0625	6.410	12.548	3.557	4.516	1.793				
SAND		0.0312	0.000	0.000	0.000	0.000	0.000				
SILT		0.0156	24.267	21.673	5.138	6.158	1.931				
CLAY		0.0078	0.000	0.000	0.000	0.000	0.000				
MEAN	(MM)	0.0039	16.434	5.703	1.383	0.082	0.690				
MEAN	(PHI)	0.0020	0.000	0.000	0.000	0.000	0.000				
SAND		0.0010	26.099	8.745	1.976	0.082	0.414				
SILT		0.0005	8.700	1.141	0.988	0.082	0.138				
CLAY		0.0000-	11.447	6.084	1.976	3.284	1.379				
MEAN	(MM)	0.092	5.323	26.877	20.525	58.759					
MEAN	(PHI)	12.912	51.331	61.660	69.787	36.690					
SAND		40.751	27.376	6.522	6.240	2.621					
SILT		46.245	15.970	4.941	3.448	1.931					
CLAY											
CACO3		0.0050	0.0536	0.5181	0.4573	1.5092					
ORG CARRUN		7.6355	4.2224	0.9486	1.1289	-0.5938					
SILICATE		2.7718	3.4875	2.9845	2.7837	2.3947					
SKEWNESS		-0.2164	0.2380	0.9600	0.9439	1.8056					
KURTOSIS		-0.7127	-0.5637	3.1283	4.0210	10.6623					
DOM MINERAL		86.000	96.000	97.000	100.000	98.000					
SEC MINERAL		0.000	0.000	0.290	0.000	0.230					
COLOR		10YR8/2	10YR8/2	10YR8/2	10YR8/2	10YR8/2					

10. NO.
INTERVAL

262 18 262 19 262 20 262 21
58 - 65 69 - 76 78 - 85 88 - 95 98 - 105 108 - 115

MM PER PER PER PER PER PER

4.0000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.000	0.000	0.000	0.000	0.000	0.000
1.0000	0.108	0.110	0.110	0.115	0.115	0.141
0.5000	0.540	0.549	0.552	0.574	0.574	0.703
0.2500	1.080	1.647	2.208	1.148	1.148	1.406
0.1250	3.240	5.488	7.174	2.870	3.125	4.923
0.0625	4.860	10.977	10.486	5.166	5.208	7.032
0.0312	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	35.637	22.503	31.457	24.684	20.833	22.504
0.0078	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	13.499	12.075	8.830	14.351	14.063	14.065
0.0020	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	23.218	27.991	21.523	29.277	34.896	29.536
0.0005	8.639	6.037	7.174	8.611	8.333	10.549
0.0000-	9.179	12.623	10.486	13.203	11.979	9.142
GRAVEL	0.000	0.000	0.000	0.000	0.000	0.000
SAND	9.827	18.771	20.530	9.874	9.896	14.205
SILT	49.136	34.577	40.287	39.036	34.896	36.568
CLAY	41.037	46.652	39.183	51.091	55.208	49.226
MEAN (MM)	0.0059	0.0079	0.0042	0.0038	0.0050	
MEAN (PHI)	7.4104	7.4363	6.9779	8.0469	7.6505	
STAN DEV	2.6272	2.9393	2.9626	2.6815	2.6156	2.7871
SKEWNESS	-0.0779	-0.1593	-0.0223	-0.2515	-0.3248	-0.2557
KURTOSIS	-0.8459	-1.0650	-1.1525	-0.6295	-0.4735	-0.7542
CACO3	92.000	74.000	91.000	95.000	97.000	
ORG CARBON	0.360	0.000	0.000	0.000	0.000	
CULOR	10YR8/2	10YR8/2	10YR8/2	10YR8/2	10YR8/2	
DBM MINERAL						
SEC MINERAL						

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ID. NO. 262 24
INTERVAL 115 - 122

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ITEM SIZE AND COMPOSITION DATA

TAKEN 28 5 6
ANALYZED 11

MCG 0 9 0 0 5 0 1 7

LATITUDE 24 40.3 N	LONGITUDE 76 19.8 W
PENETRATION 81.0	DEPTH 1372.0

CRUISE EXUMA
CORER TYPE 4.
SAMPLE LENGTH

ID. NO.	262	32	262	33	262	34	262	35	262	36	262	37
INTERVAL	0 - 7		10 - 17		20 -	27	30 -	37	40 -	47	50 -	51

MM PER PER PER PER

4.0000 0.0000 0.0000 0.0000

0.2500	1.313	2.358	2.887
0.2500	1.313	2.358	2.887
0.2500	1.313	2.358	2.887

0.0625	3.940	5.189	5.196	6.425	6.361
0.0312	0.000	0.000	0.000	0.000	0.000
0.0156	0.000	0.000	0.000	0.000	0.000
0.0078	0.000	0.000	0.000	0.000	0.000
0.0039	0.000	0.000	0.000	0.000	0.000
0.0019	0.000	0.000	0.000	0.000	0.000
0.0009	0.000	0.000	0.000	0.000	0.000
0.0004	0.000	0.000	0.000	0.000	0.000
0.0002	0.000	0.000	0.000	0.000	0.000
0.0001	0.000	0.000	0.000	0.000	0.000

0.0156	38.967	34.434	34.642	21.028
0.0078	0.000	0.000	0.000	0.000
0.0000	0.000	0.000	0.000	0.000

0.0039	18.827	16.509	13.279	14.603	15.834	16.539
0.0020	18.827	16.509	13.279	14.603	15.834	16.539
0.0010	18.827	16.509	13.279	14.603	15.834	16.539
0.0005	18.827	16.509	13.279	14.603	15.834	16.539

0.0010	15.762	13.208	16.166	24.533	30.451
0.0005	5.254	8.624	16.282	13.633	5.525

0.0000-	12.697	14.434	11.547	11.682	10.962	10.814
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GRAVEL 0.088 0.094 0.000 0.000 0.000
SAND 8.406 11.887 12.873 16.773 16.333

SILT 57.793 50.943 47.921 35.631 36.541
CLAY 33.713 37.075 38.106 37.802 36.260

MEAN (MM) 2.0064 0.0062 6.0068 0.0053

MEAN (PHI)	7.2881	7.3396	7.2021	7.5724	7.8313
STAN. DEV.	2.5981	2.6535	2.9669	3.0026	3.0717

SKENNESS -0.2987
KURTOSIS -0.5726

CaCO_3 97.000 98.000 96.000 97.000

ORG CARBON 0.600 0.000 0.000 0.000
COLOR 5Y8/1 5Y8/1 10Y3R/2 10Y8/2

DGM MINERAL
SEC MINERAL

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Age 29
60 - 67 70 - 77

262 36
60 - 67

No.
INTERVAL

PER PER

PER PER

PER

PER

MM

4.0000	0.000	0.000
2.0000	0.155	0.000
1.0000	0.155	0.107
0.5000	0.773	1.068
0.2500	2.318	3.205
0.1250	3.864	4.808
0.0625	6.182	5.876
0.0312	0.000	0.000
0.0156	17.774	20.833
0.0078	0.000	0.000
0.0039	16.229	14.423
0.0020	0.000	0.000
0.0010	31.685	30.449
0.0005	9.274	7.479
0.0000-	11.592	11.752

GRAVEL

SAND

SILT

CLAY

MEAN (MM)	0.0043	0.000
MEAN (PHI)	7.8601	15.064
STAN DEV	2.8161	35.256
SKEWNESS	-0.3567	-0.2847
KURTOSIS	-0.3514	-0.6649

CACO3

ORG CARBON

COLOR

DOM MINERAL

SEC MINERAL

93.000	88.000
0.000	0.300
10YR8/2	10YR8/2

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SITUATION DATA

CRUISE EXUMA CURET TYPE 4 SAMPLE LENGTH 13.60.0 LATITUDE 24° 34.9' N PENETRATION 76.0 DEPTH 1453.0 LONGITUDE 76° 25.0' W DEPTH 1453.0 TAKEN 28/5/65 ANALYZED 17/8/65

10. NO. INTERVAL	262 0 - 7	51 -	262 10 -	52 17	262 30 -	53 27	262 30 -	54 37	262 40 -	55 47	262 40 -	56 50 -
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PER PÉR PER PER PER

4.0000	0.000	0.000	0.000	0.000	0.000
2.0300	0.000	0.000	0.000	0.000	0.000
1.0300	0.197	0.109	0.110	0.149	0.142
0.5000	0.197	0.546	1.104	0.745	0.708
0.2500	0.986	1.092	3.311	2.235	1.416
0.1250	2.959	2.729	5.519	4.471	2.833
0.0625	3.945	6.550	5.519	5.216	5.666
0.0312	0.000	0.000	0.000	0.000	0.000
0.0156	21.696	30.568	25.386	20.119	29.745
0.0078	0.000	0.000	0.000	0.000	0.000
0.0039	24.655	16.376	17.108	34.277	15.581
0.0020	0.000	0.000	0.000	0.000	0.000
0.0010	15.779	17.467	20.419	9.687	25.496
0.0005	8.876	6.550	9.382	10.432	4.958
0.0000	20.719	18.013	12.141	12.668	13.456

GRAVEL	0.000	0.000	0.000	0.000
SAND	8.284	11.026	15.563	10.765
SILT	46.351	46.943	42.494	45.326
CLAY	45.365	42.031	41.943	32.787

MEAN (MM)	0.0037	0.0050	0.0060	0.0056	0.0052	0.0325
MEAN (PHI)	8.0819	7.6441	7.3863	7.4806	7.5878	4.9446
STAN DEV	2.6873	2.7987	2.9449	2.7157	2.7136	2.5883
SKEWNESS	-0.1975	-0.0806	-0.1775	-0.1637	-0.1429	0.6561

KURTOSIS	-0.6334	-0.9512	-0.8227	-0.4377	-0.7439	0.8378
CACO3	97.000	99.000	96.000	91.000	92.000	97.000
DIG CARBON	0.560	0.000	0.000	0.000	0.000	0.300
CO ₂	54.881	54.981	54.981	54.981	54.981	54.981

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE EXUMA Corer Type 4	SAMPLE LENGTH 50.0	LATITUDE 24 33.2 N		LONGITUDE 76 24.6 W		TAKEN 28 5 65	
		DEPTH 0.0	PENETRATION 76.0	DEPTH 30 - 37	DEPTH 60	DEPTH 40 - 47	ANALYZED 18 8 65
ID. NO. INTERVAL	PER MM	PER MM	PER MM	PER MM	PER MM	PER MM	PER MM
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.632	0.000	0.000	0.000	0.000	0.000	0.000
1.0000	0.126	0.128	0.172	0.268	0.172	0.268	0.172
0.5000	0.632	0.640	2.582	0.268	0.861	0.268	0.861
0.2500	1.264	1.921	5.164	1.340	2.582	1.340	2.582
0.1250	2.528	3.201	6.024	4.021	4.303	4.021	4.303
0.0625	3.793	5.122	5.164	5.362	5.164	5.362	5.164
0.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	27.813	34.571	9.466	4.290	12.909	4.290	12.909
0.0078	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	20.228	17.926	17.212	20.107	19.793	20.107	19.793
0.0020	6.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	12.642	6.402	17.212	26.810	21.515	26.810	21.515
0.0005	13.274	14.085	18.072	18.767	17.212	18.767	17.212
0.0000-	17.067	16.005	18.933	18.767	15.491	18.767	15.491
GRAVEL	0.632	0.000	0.000	0.000	0.000	0.000	0.000
SAND	8.344	11.012	19.105	11.260	13.081	11.260	13.081
SILT	48.040	52.497	26.678	24.397	32.702	24.397	32.702
CLAY	42.984	36.492	54.217	64.343	54.217	64.343	54.217
MEAN (MM)	0.0644	0.0057	0.0041	0.0024	0.0035	0.0024	0.0035
MEAN (PHI)	7.8123	7.4641	7.9423	8.7279	8.1575	8.7279	8.1575
STAN DEV	2.8360	2.8588	3.3307	2.6602	2.8871	2.6602	2.8871
SKEWNESS	-0.2186	-0.0344	-0.3913	-0.6025	-0.4066	-0.6025	-0.4066
KURTOSIS	-0.3552	-0.9452	-0.6250	0.7335	-0.2649	0.7335	-0.2649
CACO3	97.090	97.000	95.000	93.000	90.000	93.000	90.000
ORG CARBON	0.600	0.000	0.230	0.000	0.000	0.000	0.000
COLOR	SYR8/1	SYR8/1	SYR8/1	1CYR8/2	10YR8/2	1CYR8/1	10YR8/2
DOM MINERAL							
SEC MINERAL							

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SEDIMENT SITE AND COMPOSITION DATA

CRUISE EXUMA
CORER TYPE 4
ID. NO.
INTERVAL

SAMPLE 94
LENGTH 111.0
LATITUDE 24° 35.2' N
PENETRATION 121.0
DEPTH 0.0

MM	PER							
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.125	0.000	0.617	0.000	0.000	0.000	0.000	0.000
1.0000	0.125	0.119	0.617	0.137	0.123	0.119	0.119	0.119
0.5000	0.125	1.189	1.852	0.137	0.617	0.595	0.595	0.595
0.2500	1.245	2.378	3.086	1.366	1.233	1.784	1.784	1.784
0.1250	3.113	3.567	4.938	4.781	4.932	3.567	3.567	3.567
0.0625	4.359	4.162	5.556	9.563	11.714	7.729	7.729	7.729
0.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	31.756	33.888	25.926	20.492	27.127	20.214	20.214	20.214
0.0078	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	19.925	16.647	14.198	14.344	12.947	14.863	14.863	14.863
0.0020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	19.925	15.456	21.605	25.956	20.345	29.727	29.727	29.727
0.0005	3.736	7.729	8.642	10.246	11.097	7.729	7.729	7.729
0.0000-	15.567	14.863	12.963	12.978	9.864	13.674	13.674	13.674

GRAVEL	0.125	0.000	0.617	0.000	0.000	0.000	0.000	0.000
SAND	8.966	11.415	16.049	15.984	18.619	13.793	13.793	13.793
SILT	51.681	50.535	40.123	34.836	40.074	35.077	35.077	35.077
CLAY	39.228	38.050	43.210	49.180	41.307	51.130	51.130	51.130
MEAN (MM)	0.0053	0.0060	0.0063	0.0048	0.0066	0.0044	0.0044	0.0044
MEAN (PHI)	7.5635	7.3775	7.3025	7.7117	7.2497	7.8234	7.8234	7.8234
STAN DEV	2.6563	2.8469	3.1227	2.8607	2.8889	2.8133	2.8133	2.8133
SKEWNESS	-0.0708	-0.0832	-0.2347	-0.2118	-0.0834	-0.2699	-0.2699	-0.2699
KURTOSIS	-0.7020	-0.7658	-0.5995	-0.9679	-1.1147	-0.6986	-0.6986	-0.6986

CACO3	78.000	98.000	95.000	91.000	90.000	94.000	94.000	94.000
ORG CARBON	0.530	0.390	0.000	0.000	0.000	0.000	0.000	0.000
COLOR	5Y8/1	5Y8/1	10YR8/2	10YR8/2	10YR8/2	10YR8/2	10YR8/2	10YR8/2
DUM MINERAL	SEC MINERAL							
MEAN (MM)	0.0053	0.0060	0.0063	0.0048	0.0066	0.0044	0.0044	0.0044
MEAN (PHI)	7.5635	7.3775	7.3025	7.7117	7.2497	7.8234	7.8234	7.8234
STAN DEV	2.6563	2.8469	3.1227	2.8607	2.8889	2.8133	2.8133	2.8133
SKEWNESS	-0.0708	-0.0832	-0.2347	-0.2118	-0.0834	-0.2699	-0.2699	-0.2699
KURTOSIS	-0.7020	-0.7658	-0.5995	-0.9679	-1.1147	-0.6986	-0.6986	-0.6986

三

MC-000501

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE EXUMA
CORER TYPE 4
SAMPLE LENGTH 65
LATITUDE 24° 35.0' N
DEPTH 1554.0' PENETRATION 0.0
LONGITUDE 76° 18.0' W
DEPTH 1554.0' ANALYZED 19
TAKEN 20 5 65
ANALYZED 19 8 65
MCGG09005017

ID. NO.	262	62	262	63	262	64	262	65	262	66	262	67
INTERVAL	2 - 9		10 - 17		20 -	27	30 -	37	40 -	47	50 -	57

4-00000 0-00000 0-00000 0-00000 0-00000

	$\alpha = 0.05$	$\alpha = 0.01$	$\alpha = 0.001$
2.0000	0.146	0.126	0.165
1.0000	0.729	0.628	0.165
0.0000	0.000	0.000	0.147
			0.147
			0.679
			0.136
			0.125

0.0823	10.733	0.261	0.000	0.000	0.000	0.000
0.0312	0.000	0.000	0.000	0.000	0.000	0.000
0.015	2.328	0.728	0.000	0.000	0.000	0.000
0.0075	0.000	0.000	0.000	0.000	0.000	0.000
0.0038	0.000	0.000	0.000	0.000	0.000	0.000

0.0136	26.239	26.838	26.831	14.200	8.433
0.0078	0.000	0.000	0.000	0.000	0.000
0.0022	0.577	0.567	0.553	12.864	12.863

0.0039	14.57	18.844	20.393	13.198	16.984
0.0020	0.000	0.000	0.000	0.000	0.000

0.0010	5.102	11.307	15.851	22.418
0.0005	12.391	10.678	14.003	19.446
				10.665

0.00000- 12.391 16.474 13.198 12.908 9.410

GRAVEL	0.146	0.126	0.165	0.147	0.679	0.125
SAND	29.155	15.704	24.053	22.874	16.440	38.394

SILT	40.816	46.482	29.654	22.727	31.250	21.957
CLAY	29.883	37.688	46.128	54.252	51.630	39.523

MEAN (MM) 0.0116 0.0063 0.0058 0.0051 0.0046 0.0111

MEAN (PHI)	6.4300	STAN. DEV.	7.3003	MEAN (PHI)	6.4875
	3.3807		3.0816		3.5453

SKEWNESS	0.0078	-0.1499	-0.2793	-0.3417	-0.3898	-0.0517
KURTOSIS	-1.8881	-0.7264	-0.9488	-0.8501	-0.3647	-1.5028

CAC03 97.000 98.000 96.000 90.000 90.000 92.000

ORG CARBON	0.480	0.000	0.000
CONC	5YR8/1	0.000	10YR8/2
	5YR8/1	0.000	0.260

COLON DOM MINERAL SEC MINERAL SENSE

MCGO 9005.017

ID. NO. 262 68
INTERVAL 60 - 67

MM	PER						
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.122	0.633	0.234	0.119	0.119	0.119	0.119
1.0000	0.122	0.633	0.234	0.119	0.119	0.119	0.119
0.5000	1.825	3.797	0.234	1.188	1.188	1.188	1.188
0.2500	3.041	4.430	1.168	3.563	3.563	3.563	3.563
0.1250	6.083	6.962	4.673	6.532	6.532	6.532	6.532
0.0625	7.908	10.127	5.841	8.314	8.314	8.314	8.314
0.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	20.073	15.190	11.682	11.283	11.283	11.283	11.283
0.0078	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	14.599	13.291	18.692	16.627	16.627	16.627	16.627
0.0020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	24.331	21.519	26.869	30.879	30.879	30.879	30.879
0.0005	10.949	11.392	11.682	8.907	8.907	8.907	8.907
0.0000-	10.949	12.025	18.692	12.470	12.470	12.470	12.470
GRAVEL	0.122	0.633	0.234	0.119	0.119	0.119	0.119
SAND	18.978	25.949	12.150	19.715	19.715	19.715	19.715
SILT	34.672	28.481	30.374	27.910	27.910	27.910	27.910
CLAY	46.229	44.937	57.243	52.257	52.257	52.257	52.257
MEAN (MM)	0.0059	0.0075	0.0032	0.0049	0.0049	0.0049	0.0049
MEAN (PHI)	7.4002	7.0570	8.3084	7.6617	7.6617	7.6617	7.6617
STAN DEV	3.0749	3.4577	2.8120	3.0741	3.0741	3.0741	3.0741
SKEWNESS	-0.2384	-0.2217	-0.4309	-0.3429	-0.3429	-0.3429	-0.3429
KURTOSIS	-0.8510	-1.0171	-0.0680	-0.6744	-0.6744	-0.6744	-0.6744
CAC03	93.000	81.000	93.000	93.000	93.000	93.000	93.000
ORG CARBON	0.000	0.000	0.000	0.240	0.240	0.240	0.240
COLOR	10YR8/2						
DOM MINERAL							
SEC MINERAL							

MGG09005017

22

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE EXUMA CURER TYPE 3	SAMPLE LENGTH	LATITUDE 24 33.0 N		LONGITUDE 76 14.9 W		TAKEN 19 5 65	
		PENETRATION	DEPTH	1330.0	1330.0	ANALYZED 27 8 65	
ID. NO.	262 85	262 86	262 87	262 88	262 89	262 90	
INTERVAL	0. - 7	10 - 17	20 - 27	30 - 37	40 - 47	50 - 57	
MM	PER	PER	PER	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.096	0.102	0.092	0.000	0.000	0.000	0.709
1.0000	0.096	0.102	0.092	0.111	0.565	1.418	
0.5000	0.478	0.512	0.924	0.555	2.825	6.383	
0.2500	0.955	1.535	1.848	1.110	3.955	8.511	
0.1250	3.820	4.606	4.159	2.775	5.085	11.348	
0.0625	10.029	11.771	10.166	7.214	7.910	11.348	
0.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	50.143	47.083	45.287	48.835	41.808	20.567	
0.0078	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	14.327	12.282	13.863	14.428	13.559	9.220	
0.0020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	8.118	8.700	8.318	7.769	8.475	17.021	
0.0005	3.343	3.582	4.159	6.104	6.780	4.965	
0.0000-	8.596	9.724	11.091	11.099	9.040	8.511	
GRAVEL	0.096	0.102	0.092	0.000	0.000	0.000	0.000
SAND	15.377	18.526	17.190	11.765	20.339	39.007	
SILT	64.470	59.365	59.150	63.263	55.367	29.787	
CLAY	20.057	22.006	23.567	24.972	24.294	30.496	
MEAN (MM)	0.0118	0.0120	0.0109	0.0092	0.0123	0.0184	
MEAN (PHI)	6.4045	6.3823	6.5231	6.7642	6.3475	5.7624	
STAN DEV	2.4663	2.6167	2.6939	2.5765	2.9061	3.5523	
SKEWNESS	0.2758	0.2470	0.1907	0.2212	0.0640	0.0382	
KURTOSIS	-0.0694	-0.3294	-0.4401	-0.4840	-0.5285	-1.2132	
CACO ₃	97.000	98.000	98.000	97.000	97.000	95.000	
ORG CARBON	0.460	0.000	0.000	0.000	0.000	0.320	
COLOR	5YR8/1	5YR8/1	5YR8/1	5YR8/1	5YR8/1	5YR8/1	
SFC MINERAL							

MGGC09005017

10. NO. INTERVAL	262 91 60 - 67	262 92 70 - 77	262 93 80 - 87	262 94 90 - 97	262 95 100 - 107	262 96 110 - 117
MM	PER	PER	PER	PER	PER	PER
4.0000	6.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2.0000	0.0900	0.0900	0.0933	0.5788	0.0999	0.1044
1.0000	0.4480	2.2400	0.4133	1.1567	0.4970	0.1044
0.5000	2.2400	2.2400	2.4777	3.4688	2.9822	1.0451
0.2500	5.3760	5.8240	6.6067	4.6244	4.4733	2.6122
0.1250	12.0970	12.0970	11.9744	6.9366	7.9522	7.3155
0.0625	13.8890	17.0250	14.4511	10.4055	9.9400	12.0177
0.0312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0156	24.6420	25.9860	30.5530	30.0580	23.8570	27.1680
0.0078	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0039	9.4090	8.9610	7.0190	6.9360	14.4140	10.4490
0.0020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0010	18.8170	14.3370	17.3410	21.9650	20.8750	25.6010
0.0005	5.8240	4.9280	3.3030	5.2020	6.4610	4.7020
0.0000-	7.1680	6.2720	5.7800	8.6710	8.4490	8.8820
GRAVEL	0.0900	0.0900	0.0833	0.5788	0.0999	0.1044
SAND	34.0500	39.4270	35.9210	26.5900	25.8450	23.0930
SILT	34.0500	34.9460	37.5720	36.9940	38.2700	37.6180
CLAY	31.8100	25.5380	26.4240	35.8380	35.7850	39.1850
MEAN (MM)	0.0140	0.0194	0.0182	0.0117	0.0099	0.0085
MEAN (PHI)	6.1613	5.6864	5.7791	6.4133	6.6511	6.8710
STAN DEV	3.2025	3.1968	3.0668	3.2751	3.1703	2.9857
SKEWNESS	0.0462	0.1162	0.1299	-0.0675	-0.0994	-0.0648
KURTOSIS	-1.1601	-0.9434	-0.9663	-0.9670	-1.0211	-1.0958
CACO3	93.0000	96.0000	96.0000	93.0000	.95.0000	96.0000
ORG CARBUN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
COLOR	5YR8/1	5YR8/1	5YR8/1	5YR8/1	5YR8/1	5YR8/1
DDX MINERAL SEC MINERAL						

MGGC09005017

10. NO.
INTERVAL
120 - 127

MIN	PER	PER	PER	PER	PER
4.0000	0.600	0.000	0.000	0.131	0.131
2.0000	0.983	0.000	0.000	0.131	0.131
1.0000	0.083	0.000	0.000	1.312	1.312
0.5000	1.650	0.000	0.000	3.937	3.937
0.2500	3.713	0.000	0.000	10.499	10.499
0.1250	9.076	0.000	0.000	11.964	13.780
0.0625	11.964	0.000	0.000	25.990	22.966
0.0312	0.000	0.000	0.000	0.000	0.000
0.0156	0.000	0.000	0.000	0.000	0.000
0.0078	0.000	0.000	0.000	10.314	11.155
0.0039	0.000	0.000	0.000	25.578	22.310
0.0020	0.000	0.000	0.000	4.125	3.281
0.0010	0.000	0.000	0.000	7.426	10.499
0.0005	0.000	0.000	0.000	0.000	0.000
0.0000-	0.000	0.000	0.000	0.000	0.000
GRAVEL	0.283	0.131	0.131	0.0105	0.0105
SAND	26.485	29.659	29.659	6.5787	6.5787
SILT	36.304	34.121	34.121	3.1650	3.1650
CLAY	37.129	36.089	36.089	-0.0086	-0.0086
MEAN (MM)	0.0101	0.0101	0.0101	-1.2046	-1.2046
MEAN (PHI)	6.6279	6.6279	6.6279	0.270	0.270
STAN DEV	3.0512	3.0512	3.0512	5YR8/1	5YR8/1
SKEWNESS	-0.0501	-0.0501	-0.0501		
KURTOSIS	-1.1386	-1.1386	-1.1386		
CACU3	93.000	94.000	94.000		
URG CARRON	0.000	0.000	0.000		
COLOR	SYR8/1	SYR8/1	SYR8/1		
DUN MINERAL					
SIC MINERAL					

MCG 09005017

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE EXUMA
CORER TYPE 4
SAMPLE LENGTH 90
LATITUDE 24° 34.5' N
ELEVATION 888' C
DEPTH 1372' 0
LONGITUDE 76° 11.7' W
TAKEN 20° 5' 65
ANALYZED 23° 8'

ID. NO.	262	72	262	73	262	74	262	75	262	76	262	77
INTERVAL	2 - 9		12 - 19		20 - 27		30 - 37		40 - 47		50 - 57	

PER PER PER PER

4.0000	0.000	0.000	0.000	0.000	0.000
2.0000	0.119	0.147	0.000	0.000	8.876
1.0000	0.119	0.147	0.154	0.680	5.917
0.5000	1.188	1.466	1.536	1.361	4.142
0.2500	2.969	1.466	3.072	2.721	4.142
0.1250	11.283	13.930	8.449	8.163	10.059
0.0625	22.565	24.194	19.201	16.327	14.793
0.0312	0.000	0.000	0.000	0.000	0.000
0.0156	29.691	21.261	28.418	31.973	26.627
0.0078	0.000	0.000	0.000	0.000	0.000
0.0039	11.876	13.196	15.361	15.646	11.017
0.0020	0.000	0.000	0.000	0.000	0.000
0.0010	7.126	4.399	4.608	4.082	6.780
0.0005	3.563	9.531	6.144	6.122	7.203
0.0002	8.501	10.264	13.957	12.925	9.746
0.0001	0.000	0.000	0.000	0.000	10.651

GRAVEL	0.119	0.147	0.000	0.000	8.876
SAND	38.124	41.202	32.412	29.252	39.053
SILT	41.568	34.457	43.779	47.619	34.911
CLAY	20.190	24.194	23.810	23.129	17.160
MEAN (MM)	0.0181	0.0158	0.0133	0.0130	0.0162
MEAN (PHI)	5.7874	5.9795	6.2358	6.2687	5.9492
STAN DEV	2.9385	3.1665	3.0832	3.0463	3.0673
SKENNESS	0.2784	0.2228	0.1816	0.1620	0.2368

ID. NO.
INTERVAL
76 - 78

MM PER MM PER MM PER MM PER

4.0000	0.000
2.0000	1.245
1.0000	2.490
0.5000	6.639
0.2500	15.768
0.1250	16.183
0.0625	9.544
0.0312	0.000
0.0156	17.012
0.0078	0.000
0.0039	7.054
0.0020	0.000
0.0010	12.448
0.0005	4.149
0.0000-	7.469

GRAVEL	1.245
SAND	50.622
SILT	24.066
CLAY	24.066

MEAN (MM)	0.0331
MEAN (PHI)	4.9191
STAN DEV	3.6317
SKEWNESS	0.2083
KURTOSIS	-1.0920
CACO3	97.000
ORG CARBON	0.270
COLOR	5Y8/1
DOM MINERAL	
SEC MINERAL	

MGG09005017

ID. NO.
INTERVAL
262 31
60 - 67

MM	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000
2.0000	0.520	0.520	0.520	0.520
1.0000	0.164	0.164	0.164	0.164
0.5000	0.520	0.520	0.520	0.520
0.2500	1.561	1.561	1.561	1.561
0.1250	3.642	3.642	3.642	3.642
0.0625	6.243	6.243	6.243	6.243
0.0312	0.000	0.000	0.000	0.000
0.0156	21.332	21.332	21.332	21.332
0.0078	0.000	0.000	0.000	0.000
0.0039	15.088	15.088	15.088	15.088
0.0020	0.000	0.000	0.000	0.000
0.0010	26.015	26.015	26.015	26.015
0.0005	12.437	12.437	12.437	12.437
0.0000-	12.487	12.487	12.487	12.487

GRAVEL	0.520			
SAND	12.071			
SILT	36.420			
CLAY	50.989			
MEAN (MM)	0.0043			
MEAN (PHI)	7.8507			
STAN. DEV	2.8473			
SKEWNESS	-0.3212			
KURTOSIS	-0.3638			
CACO3	93.000			
ORG CARBON	0.380			
COLOR	10YR8/2			
DOM MINERAL				
SEC MINERAL				

PC 1 NO. 029005017 30

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY COLEMAN
DATE S AUG 68

NAVOCANO-EXP-3167/18-8 (Rev. 1-63)

080-46

1. CRUISE NO.	263	4. SAMPLE NO.	BS 4	7. TYPE CORER	MULLEN BURG
2. LATITUDE	24° 47' 10"	5. DATE TAKEN (day, month, year)	18/8/68	8. CORE LENGTH (cm)	90
3. LONGITUDE	76° 31' 10" W	6. WATER DEPTH (m)	154.9	9. CORER PENETRATION (cm)	100
10. SUBSAMPLE DEPTH IN CORE (cm)	0-7	7-10	10-17	17-22	22-29
11. WET UNIT WEIGHT (g/cm³)	1.72	1.83	1.80	1.76	1.63
12. SPECIFIC GRAVITY OF SOLIDS	2.78				
13. WATER CONTENT (% dry weight)	68.94	51.10	46.56	49.27	65.92
14. VOID RATIO	1.73				
15. SATURATED VOID RATIO	1.92				
16. POROSITY (%)	63.4				
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	15.75	83.38	54.35	72.98	72.20
	REMOULD (g/cm²)	4.57	6.187	6.61	1.26
23. COHESION	NATURAL (g/cm²)	15.75	83.38	54.35	72.98
	REMOULD (g/cm²)	4.57	6.187	6.61	1.26
24. SENSITIVITY	3	13	6	11	57
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (")					
29. REMARKS WATER ON TOP OF CORE					

VERY COARSE ZONE FROM 75-90 cm - NO TESTS POSSIBLE.

SOULD AT 13, 23, 34, 44, 54, 64, 74, 84

* MALFUNCTION OF EQUIPMENT DURING COHESION TEST ON SO-S7 CMB (NATURAL)

PCMC 09005017

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY HODDELL
COLEMAN

DATE S AUG 65

NAVOCEANO-EXP-3107/18-B (Rev. 1-63)

1. CRUISE NO.	262	4. SAMPLE NO.	135	7. TYPE CORER	Kullenburg
2. LATITUDE	24° 41.16'	5. DATE TAKEN (day, month, year)	18/5/65	8. CORE LENGTH (cm)	90
3. LONGITUDE	76° 31.10' W	6. WATER DEPTH (m)	1549	9. CORE PENETRATION (cm)	160
10. SUBSAMPLE DEPTH IN CORE (cm)	60-67	11. WET UNIT WEIGHT (g/cm³)	1.71	12. SPECIFIC GRAVITY OF SOLIDS	2.73
11. WET UNIT WEIGHT (g/cm³)	1.71	13. WATER CONTENT (% dry weight)	54.05	14. VOID RATIO	42.68
12. SPECIFIC GRAVITY OF SOLIDS		15. SATURATED VOID RATIO	1.11	16. POROSITY (%)	1.16
13. WATER CONTENT (% dry weight)	54.05	17. LIQUID LIMIT		18. PLASTIC LIMIT	52.7
14. VOID RATIO		19. PLASTICITY INDEX		20. LIQUIDITY INDEX	
15. SATURATED VOID RATIO	1.16	21. COMPRESSION INDEX FROM LL		22. COMPRESSIVE STRENGTH NATURAL (g/cm²)	
16. POROSITY (%)	52.7	23. COHESION NATURAL (g/cm²)	113.90	REMOULD (g/cm²)	119.31
17. LIQUID LIMIT		REMOULD (g/cm²)	18.98		16.241
18. PLASTIC LIMIT		24. SENSITIVITY	6		7
19. PLASTICITY INDEX		25. ANGLE OF INTERNAL FRICTION (°)			
20. LIQUIDITY INDEX		26. ACTIVITY			
21. COMPRESSION INDEX FROM LL		27. MODULUS OF ELASTICITY			
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)		28. SLUMP (in)			
REMOULD (g/cm²)		29. REMARKS			

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

MGG09005017

ANALYZED BY STUPD62

DATE 6 AUG 65

NAVOCANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	262	4. SAMPLE NO.	BS 5	7. TYPE CORE HOLLOW BURG
2. LATITUDE	24° 42.1'S	N	"	8. CORE LENGTH (cm)
3. LONGITUDE	76° 25.98' W	"	"	125
10. SUBSAMPLE DEPTH IN CORE (cm)	0-7	7-9	9-16	16-25
11. WET UNIT WEIGHT (g/cm³)	1.53	1.76	1.76	1.78
12. SPECIFIC GRAVITY OF SOLIDS	2.80			
13. WATER CONTENT (% dry weight)	122.88	62.28	56.78	54.22
14. VOID RATIO	3.08			
15. SATURATED VOID RATIO	3.44			
16. POROSITY (%)	75.5			
17. LIQUID LIMIT				
18. PLASTIC LIMIT				
19. PLASTICITY INDEX				
20. LIQUIDITY INDEX				
21. COMPRESSION INDEX FROM LL				
22. COMPRESSIVE STRENGTH ^a NATURAL (g/cm²) REMOULD (g/cm²)				
23. COHESION NATURAL (g/cm²) REMOULD (g/cm²)	13.218 4.148	70.918 2.461	62.292 2.671	113.871 10.827
24. SENSITIVITY	3	30	23	3
25. ANGLE OF INTERNAL FRICTION (°)				
26. ACTIVITY				
27. MODULUS OF ELASTICITY				
28. SLUMP (%)				
29. REMARKS				
080-46				
P6. 100%				

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY COLEMAN
H. HODGE LL

NAVOCANO-EXP-3107/18-B (Rev. 1-63)

1. CRUISE NO.	262	4. SAMPLE NO.	B 5 S	7. TYPE CORER	KULLICK BURG	
2. LATITUDE	24° 24' 15" N	5. DATE TAKEN (Day, month, year)	18/5/65	8. CORE LENGTH (cm)	12.5	
3. LONGITUDE	76° 25' 48" W	6. WATER DEPTH (m)	16.35	9. CORER PENETRATION (cm)	2.25	
10. SUBSAMPLE DEPTH IN CORE (cm)	58-65	65-69	69-76	76-78	78-85	
11. WET UNIT WEIGHT (g/cm^3)	1.69	1.76	1.75	1.75	1.76	
12. SPECIFIC GRAVITY OF SOLIDS					2.74	
13. WATER CONTENT (% dry weight)	53.27	50.88	47.92	55.59	57.11	
14. VOID RATIO						
15. SATURATED VOID RATIO						
16. POROSITY (%)					58.2	
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH ^a	NATURAL (g/cm^2)	REMOULD (g/cm^2)				
23. COHESION	NATURAL (g/cm^2)	REMOULD (g/cm^2)				
24. SENSITIVITY	7	3	13	3	10	
25. ANGLE OF INTERNAL FRICTION (°)						
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (%)						
29. REMARKS	WATER ON TOP OF CORE					
	SOUND VELOCITY TESTS AT 2, 12, 22, 32, 42, 52, 62, 72, 82, 92, 102, 112, 122 CM					
	NO REMOULD RUN FOR 98-105 CM					

PG 1 OF 2
MCG09005017CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIESANALYZED BY COLEMAN
HEDDLE

DATE 11 AUG 65

NAVOCANO-EXP-316/7/18-B (Rev. 1-63)

1. CRUISE NO.	262	4. SAMPLE NO.	135	10	7. TYPE CORER	MULLEN BURG
2. LATITUDE	24° 0' 40.56"	N	5. DATE TAKEN (day, month, year)	28/5/65	8. CORE LENGTH (cm)	81
3. LONGITUDE	76° 0' 19.81"	W	6. WATER DEPTH (m)	1372	9. CORE PENETRATION (cm)	81
10. SUBSAMPLE DEPTH IN CORE (cm)	0-1	7-10	10-17	17-20	20-27	27-30
11. WET UNIT WEIGHT (g/cm^3)	1.707	1.676	1.713	1.643	1.693	1.676
12. SPECIFIC GRAVITY OF SOLIDS	2.73					
13. WATER CONTENT (% dry weight)	70.20	61.46	53.72	64.99	61.84	58.01
14. VOID RATIO	1.73					
15. SATURATED VOID RATIO	1.92					
16. POROSITY (%)	63.3					
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(g/cm^2)	(g/cm^2)				
23. COHESION	NATURAL REMOULD	(g/cm^2)	37.966 8.156	62.362 16.241	81.345 13.569	121.983 5.914
24. SENSITIVITY			5	4	6	22
25. ANGLE OF INTERNAL FRICTION (°)						
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (%)						
29. REMARKS	WATER ON TOP OF CORE SOUND VELOCITY TESTS AT 0, 10, 20, 30, 40, 50, 60, 70, 80 cm					

**GEOTECHNICAL ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES**

PC - 09005017

ANALYZED BY **COLEMAN**
ANALYZED BY **E.J.O.B.D.E.L.**

NAVOCANO-EXP-31/67/18-8 (Rev. 1-63)

1. CRUISE NO.	262	4. SAMPLE NO.	135	10	7. TYPE CORE	HULL	BURG
2. LATITUDE	24° 40.36'	N	"	"	8. DATE TAKEN (DAY, month, year)	28 / 5 / 65	9. CORE LENGTH (cm)
3. LONGITUDE	76° 19.81'	W	"	"	6. WATER DEPTH (m)	137.2	81
10. SUBSAMPLE DEPTH IN CORE (cm)	60-67	67-70	70-77	77-81	Bottom		
11. WET UNIT WEIGHT (g/cm ³)	1.705		1.636				
12. SPECIFIC GRAVITY OF SOLIDS			2.73				
13. WATER CONTENT (% dry weight)	58.40		61.05	61.61			
14. VOID RATIO			1.69				
15. SATURATED VOID RATIO			1.67				
16. POROSITY (%)			62.8				
17. LIQUID LIMIT							
18. PLASTIC LIMIT							
19. PLASTICITY INDEX							
20. LIQUIDITY INDEX							
21. COMPRESSION INDEX FROM LL							
22. COMPRESSIVE STRENGTH NATURAL (g/cm ²)							
		REMOULD (g/cm ²)					
23. COHESION NATURAL (g/cm ²)	103.000		86.759				
	REMOULD (g/cm ²)	18.983	10.827				
24. SENSITIVITY	5		8				
25. ANGLE OF INTERNAL FRICTION (°)							
26. ACTIVITY							
27. MODULUS OF ELASTICITY							
28. SLUMP (in)							
29. REMARKS							

MCGO 9005017

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

ANALYZED ON 12 AUGUST 1965

DATE 12 AUG 65

1. CRUISE NO.	262	4. SAMPLE NO.	13 S	13	7. TYPE CORER (ULLCM WORK)	ULLCM
2. LATITUDE	24° 34' 01"	5. DATE TAKEN (DAY, month, year)	28/5/65	5. CORE LENGTH (cm)	50	
3. LONGITUDE	76° 25' 02" W	6. WATER DEPTH (m)	4.63	9. CORER PENETRATION (cm)	76	
10. SUBSAMPLE DEPTH IN CORE (cm)	0-7	7-10	10-11	17-20	20-21	21-30
11. WET UNIT WEIGHT (g/cm³)	1.63	1.77		1.67	1.68	1.76
12. SPECIFIC GRAVITY OF SOLIDS	2.78					2.76
13. WATER CONTENT (% dry weight)	70.60	66.11	59.15	65.95	50.42	43.59
14. VOID RATIO	1.89					1.26
15. SATURATED VOID RATIO	1.96					1.20
16. POROSITY (%)	65.5					55.7
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH NATURAL (g/cm²) REMOULD (g/cm²)						
23. COHESION NATURAL (g/cm²) 45.13 REMOULD (g/cm²) 5.41		84.02	67.74	92.17	105.74	924.53
24. SENSITIVITY	8	31	7	6	7	24.39
25. ANGLE OF INTERNAL FRICTION (°)						
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (in)						
29. REMARKS	SOUND VEL @ 1, 11, 21, 31, 41, 51, 61 WATER ON TOP					

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CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYST: *John C. Gandy*

NAVOCANO-PFF-3167/18-B (Rev. 1-63)

262**BS 80 B**

1. CRUISE NO.	4. SAMPLE NO.	5. DATE TAKEN (Day, Month, Year)	6. CORE LENGTH (cm)	7. TYPE CORE	8. COLENTIN LOCAL	9. CORE PENETRATION (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm ³)	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm ²) REMOULD (g/cm ²)	23. COHESION NATURAL (g/cm ²) REMOULD (g/cm ²)	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (%)	29. REMARKS								
2. LATITUDE	24 ° 33' 20"	4	5. DATE TAKEN (Day, Month, Year)	28/10/55	6. CORE LENGTH (cm)	50	7. TYPE CORE	8. COLENTIN LOCAL	9. CORE PENETRATION (cm)	10. SUBSAMPLE DEPTH IN CORE (cm)	11. WET UNIT WEIGHT (g/cm ³)	12. SPECIFIC GRAVITY OF SOLIDS	13. WATER CONTENT (% dry weight)	14. VOID RATIO	15. SATURATED VOID RATIO	16. POROSITY (%)	17. LIQUID LIMIT	18. PLASTIC LIMIT	19. PLASTICITY INDEX	20. LIQUIDITY INDEX	21. COMPRESSION INDEX FROM LL	22. COMPRESSIVE STRENGTH NATURAL (g/cm ²) REMOULD (g/cm ²)	23. COHESION NATURAL (g/cm ²) REMOULD (g/cm ²)	24. SENSITIVITY	25. ANGLE OF INTERNAL FRICTION (°)	26. ACTIVITY	27. MODULUS OF ELASTICITY	28. SLUMP (%)	29. REMARKS					
3. LONGITUDE	16 ° 24' 61"	W	6. WATER DEPTH (m)	?	7. COLENTIN LOCAL	?	8. TYPE CORE	9. CORE LENGTH (cm)	10. CORE PENETRATION (cm)	11. SUBSAMPLE DEPTH IN CORE (cm)	12. WET UNIT WEIGHT (g/cm ³)	13. SPECIFIC GRAVITY OF SOLIDS	14. WATER CONTENT (% dry weight)	15. VOID RATIO	16. SATURATED VOID RATIO	17. POROSITY (%)	18. LIQUID LIMIT	19. PLASTIC LIMIT	20. PLASTICITY INDEX	21. LIQUIDITY INDEX	22. COMPRESSION INDEX FROM LL	23. COMPRESSIVE STRENGTH NATURAL (g/cm ²) REMOULD (g/cm ²)	24. COHESION NATURAL (g/cm ²) REMOULD (g/cm ²)	25. SENSITIVITY	26. ANGLE OF INTERNAL FRICTION (°)	27. ACTIVITY	28. MODULUS OF ELASTICITY	29. SLUMP (%)	30. REMARKS					
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 7	1 - 12	12 - 19	19 - 20	20 - 21	27 - 30	30 - 31	37 - 40	40 - 41	47 - 50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50						
11. WET UNIT WEIGHT (g/cm ³)	1.649	1.69				1.74	1.62																											
12. SPECIFIC GRAVITY OF SOLIDS	2.77																																	
13. WATER CONTENT (% dry weight)	78.12	49.38				56.86	64.10																											
14. VOID RATIO	1.99																																	
15. SATURATED VOID RATIO	2.16																																	
16. POROSITY (%)	66.6																																	
17. LIQUID LIMIT																																		
18. PLASTIC LIMIT																																		
19. PLASTICITY INDEX																																		
20. LIQUIDITY INDEX																																		
21. COMPRESSION INDEX FROM LL																																		
22. COMPRESSIVE STRENGTH NATURAL (g/cm ²) REMOULD (g/cm ²)																																		
23. COHESION NATURAL (g/cm ²) REMOULD (g/cm ²)	27.14		17.60		86.76		102.99		119.31																									
24. SENSITIVITY	10		10.83		13.57		10.83		10.83																									
25. ANGLE OF INTERNAL FRICTION (°)	10		7		6		9		6																									
26. ACTIVITY																																		
27. MODULUS OF ELASTICITY																																		
28. SLUMP (%)																																		
29. REMARKS	SOUND VEL AT 0, 10, 20, 30, 40, 50																																	

DATE 18 AUG 1965

NAVOCANO-PFF-3167/18-B (Rev. 1-63)

MCG 09005017

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY C. D. COOPER

NAVOCANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	262	4. SAMPLE NO.	135	84	7. TYPE CORE (Rock Core)	
2. LATITUDE	24° 32' 23"	5. DATE TAKEN (Days, Month, Year)	28/6/65	6. CORE LENGTH (cm)	116	
3. LONGITUDE	76° 21' 18"	6. WATER DEPTH (m)		9. CORE PENETRATION (cm)	121	
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 10	7-10	10-17	17-20	20-21	27-40
11. WET UNIT WEIGHT (g/cm³)	1.695	1.657	1.700	1.630	1.742	1.671
12. SPECIFIC GRAVITY OF SOLIDS	2.78					
13. WATER CONTENT (% dry weight)	72.33	62.00	63.20	62.90	55.86	59.69
14. VOID RATIO	1.83					
15. SATURATED VOID RATIO	2.01					
16. POROSITY (%)	64.6					
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)						
23. COHESION NATURAL (g/cm²)	51.46	51.46	61.46	68.48	82.61	81.34
REMOULD (g/cm²)	16.24	32.55	16.24	16.24	13.57	16.83
24. SENSITIVITY	3	2	2	7	6	5
25. ANGLE OF INTERNAL FRICTION (°)						
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (#)						
29. REMARKS WATER ON TOP,						
SOUND VELOCITy @ 1, 11, 21, 31, 41, 51, 61, 71, 81, 91, 101						

CONCRETE ANALYSIS SUBSTRATE SURVEY
ENGINEERING PROPERTIES

MCGG 09005017

COLLECTED BY

ANALYZED BY

DATE 16 NOV 2018

NAVOCANO-EXP-3107/10-B (Rev. 1-63)

1. CRUISE NO.	262	4. SAMPLE NO.	BS	7. TYPE CORER	TYPE CORER
2. LATITUDE	24° 33' 23"	5. DATE TAKEN (Day month year)	28/5/05	8. CORE LENGTH (cm)	11
3. LONGITUDE	26° 21' 06"	6. WATER DEPTH (m)	2	9. CORER PENETRATION (cm)	21
10. SUBSAMPLE DEPTH IN CORE (cm)	60-67	7. 10-10	77-80	10-90	90-91
11. WET UNIT WEIGHT (g/cm³)	1.691	8. 61-77	80-87	91-100	101-111
12. SPECIFIC GRAVITY OF SOLIDS		9. 1.637	1.662	1.604	1.636
13. WATER CONTENT (% dry weight)	62.92	10. 60.67	60.53	62.88	65.38
14. VOID RATIO		11. 1.5		1.75	
15. SATURATED VOID RATIO		12. 1.8		1.78	
16. POROSITY (%)		13. 63.6			
17. LIQUID LIMIT		14. 63.6			
18. PLASTIC LIMIT		15. 63.6			
19. PLASTICITY INDEX		16. 63.6			
20. LIQUIDITY INDEX		17. 63.6			
21. COMPRESSION INDEX FROM LL		18. 63.6			
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)		19. 63.6			
REMOULD (g/cm²)		20. 63.6			
23. COHESION NATURAL (g/cm²)	100.33	21. 98	146.38	121.98	116.57
REMOULD (g/cm²)	13.57	22. 8.16	16.24	16.24	29.81
24. SENSITIVITY	7	23. 15	9	7	4
25. ANGLE OF INTERNAL FRICTION (°)		24. 15			
26. ACTIVITY		25. 15			
27. MODULUS OF ELASTICITY		26. 15			
28. SLUMP (cm)		27. 15			
29. REMARKS		28. 15			

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

NAVOCANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO. 2622. LATITUDE 24° 35' 00"3. LONGITUDE 107° 01' 00"4. SAMPLE NO. B 55. DATE TAKEN (DAY, month, year) 20/S/656. WATER DEPTH (m) 15.547. TYPE CORER MULLEY 43 DRG8. CORE LENGTH (cm) 1029. CORER PENETRATION (cm) 50.57

10. SUBSAMPLE DEPTH IN CORE (cm)

11. WET UNIT WEIGHT (g/cm³)

12. SPECIFIC GRAVITY OF SOLIDS

13. WATER CONTENT (% dry weight)

14. VOID RATIO

15. SATURATED VOID RATIO

16. POROSITY (%)

17. LIQUID LIMIT

18. PLASTIC LIMIT

19. PLASTICITY INDEX

20. LIQUIDITY INDEX

21. COMPRESSION INDEX FROM LL

22. COMPRESSIVE STRENGTH NATURAL (g/cm²)REMOULD (g/cm²)23. COHESION NATURAL (g/cm²)REMOULD (g/cm²)

24. SENSITIVITY

25. ANGLE OF INTERNAL FRICTION (°)

26. ACTIVITY

27. MODULUS OF ELASTICITY

28. SLUMP (%)

29. REMARKS ✓ AFTER ON TOP

SOUND VELCOCITY AT 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

MCG 09005017ANALYST JOHN H. BROWNDATE 10/10/65PAGE 65

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CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

MCG 09005017

NAVOCANO-EXP-3167/18-B (Rev. 1-63)

ANALYZED BY HODDELL

DATE 10 AUG 65

1. CRUISE NO.	262	4. SAMPLE NO.	BS 85	7. TYPE CORER	10000 BURG
2. LATITUDE	24 ° 38' 00"	5. DATE TAKEN (DD/MM/YY, month, year)	20/5/65	8. CORE LENGTH (cm)	102
3. LONGITUDE	76 ° 01' 00"	6. WATER DEPTH (m)	15.54	9. CORER PENETRATION (cm)	?
10. SUBSAMPLE DEPTH IN CORE (cm)	57-60	60-67	70-77	77-80	80-87
11. WET UNIT WEIGHT (g/cm³)	1.60	1.65	1.63	1.70	1.70
12. SPECIFIC GRAVITY OF SOLIDS				2.74	
13. WATER CONTENT (% dry weight)	62.29	66.85	61.34	58.28	
14. VOID RATIO				1.55	
15. SATURATED VOID RATIO				1.59	
16. POROSITY (%)				60.8	
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH ^a	NATURAL (g/cm²)	REMOULD (g/cm²)			
23. COHESION	NATURAL (g/cm²)	REMOULD (g/cm²)	89.50	113.90	162.69
24. SENSITIVITY	10.52 10.83	16.24	16.24	16.24	29.81
25. ANGLE OF INTERNAL FRICTION (°)	7.	6	7	7	5
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS					

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

1. CRUISE NO.	262	4. SAMPLE NO. BS	89	7. TYPE CORE	SCILLE M BURG
2. LATITUDE	24° 37.98'	5. DATE TAKEN (day, month, year)	19/5/65	8. CORE LENGTH (cm)	136
3. LONGITUDE	76° 14.90'	6. WATER DEPTH (m)	13.30	9. CORE PENETRATION (cm)	198
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 7	7 - 10	10 - 17	17 - 20	27 - 30
11. WET UNIT WEIGHT (g/cm ³)	1.822	1.81	1.90	1.83	1.80
12. SPECIFIC GRAVITY OF SOLIDS	2.71				
13. WATER CONTENT (% dry weight)	53.80	46.94	43.99	45.46	48.37
14. VOID RATIO	1.34				
15. SATURATED VOID RATIO	1.49				
16. POROSITY (%)	57.2				
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH ^a	NATURAL (g/cm ²)	NATURAL (g/cm ²)	REMOULD (g/cm ²)		
23. COHESION	NATURAL (g/cm ²)	70.52	65.10	157.28	130.14
	REMOULD (g/cm ²)	8.16	10.83	21.66	18.98
24. SENSITIVITY	9	6		7	
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS	WATER ON TOP. PARTIAL VOIDS AT 9-10 CM AND 79-110 CM - UPON EXTRUDING, APPROXIMATELY 4 CM COMPRESSION OCCURRED. DUE TO DISTURBED NATURE OF CORE, WATER CONTENT & ENGINEERING PROPERTIES VALUES ARE QUESTIONABLE. SOUND VELOCITY AT 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130				

ANALYZED BY HOPPELL

DATE 27 AVE 1965

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

NAVOCANO-EXP-3167/18-8 (Rev. 1-63)

CORE ANALYSIS SUMMARY SHEET**ENGINEERING PROPERTIES**ANALYZED BY HUDDELLDATE 27 AUG 1965

1. CRUISE NO.	4. SAMPLE NO.	5. DATE TAKEN (day, month, year)	6. WATER DEPTH (m)	7. TYPE CORER	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm)
2. LATITUDE <u>24 ° 37.98'</u>						
3. LONGITUDE <u>76 ° 14.90'</u>						
4. SUBSAMPLE DEPTH IN CORE (cm)	120-127	127-134	134-136	BOTTOM		
5. WET UNIT WEIGHT (g/cm³)	1.73	1.64				
6. SPECIFIC GRAVITY OF SOLIDS	2.73					
7. WATER CONTENT (%) dry weight	55.88	56.42				
8. VOID RATIO	1.59					
9. SATURATED VOID RATIO	1.54					
10. POROSITY (%)	61.4					
11. LIQUID LIMIT						
12. PLASTIC LIMIT						
13. PLASTICITY INDEX						
14. LIQUIDITY INDEX						
15. COMPRESSION INDEX FROM LL						
16. COMPRESSIVE STRENGTH NATURAL (g/cm²)						
17. COMPRESSIVE STRENGTH REMOLD (g/cm²)						
18. COHESION NATURAL (g/cm²)	<u>162.69</u>	<u>97.59</u>				
19. COHESION REMOLD (g/cm²)	<u>16.24</u>	<u>10.83</u>				
20. SENSITIVITY	10	9				
21. ANGLE OF INTERNAL FRICTION (°)						
22. ACTIVITY						
23. MODULUS OF ELASTICITY						
24. SLUMP (in)						
25. REMARKS						

**CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES**

MGG0 9005017

ANALYZED BY H. H. BREWER

NAVOCEANO-EXP-3167/18-B (Rev. 1-63)

DATE 23 AUG 65

1. CRUISE NO.	262	4. SAMPLE NO.	BS 90	7. TYPE CORER	HULLENBURG
2. LATITUDE	24 ° 34' 30'	5. DATE TAKEN (DAY, month, year)	20/5/65	8. CORE LENGTH (cm)	78
3. LONGITUDE	76 ° 11' 70'	6. WATER DEPTH (m)	1372	9. CORER PENETRATION (cm)	86
10. SUBSAMPLE DEPTH IN CORE (cm)	0-2	7-9	9-12	12-19	19-26
11. WET UNIT WEIGHT (g/cm³)	1.805	1.793	1.887	1.823	1.918
12. SPECIFIC GRAVITY OF SOLIDS	2.77				
13. WATER CONTENT (% dry weight)	84.19	41.67	40.67	39.11	37.28
14. VOID RATIO	1.59				
15. SATURATED VOID RATIO	1.50				
16. POROSITY (%)	61.4				
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm²) REMOULD (g/cm²)					
23. COHESION NATURAL (g/cm²) REMOULD (g/cm²)	43.38	130.14	195.29	146.46	233.21
24. SENSITIVITY	8.16	10.83	18.98	13.57	16.24
25. ANGLE OF INTERNAL FRICTION (°)	5	12	10	11	14
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS	WATER ON TOP				
	H2S ODOR THROUGHOUT				
	SOUND VELOCITY AT 0, 10, 20, 30, 40, 50, 60, 70				

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**CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES**

NAVOCFANO-EXP-3167/18-B (Rev. 1-63)

ANALYZED BY J. HODDELL

DATE 23AUG65

1. CRUISE NO.	262	4. SAMPLE NO.	35 90	7. TYPE CORER	ROLLING BURG
2. LATITUDE	2° 34' 50"	5. DATE TAKEN (Day, Month, Year)	26/3/65	8. CORE LENGTH (cm)	78
3. LONGITUDE	70° 16' 10"	6. WATER DEPTH (m)	13.72	9. CORE PENETRATION (cm)	88
10. SUBSAMPLE DEPTH IN CORE (cm)	57-60	60-63	63-70	70-78	
11. WET UNIT WEIGHT (g/cm ³)					
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)	31.28	27.92	36.13		
14. VOID RATIO					
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(g/cm ²)	(g/cm ²)			
23. COHESION NATURAL REMOULD	(g/cm ²)	(g/cm ²)			
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS					

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CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY COLEMAN

ANALYZED BY HUBBELL

DATE 10 AUG 65

NAVOCEANO-EXP-3167/18-8 (Rev. 1-63)

080-46

1. CRUISE NO.	262	4. SAMPLE NO.	"X"	7. TYPE CORER	KULLENBURG
2. LATITUDE	24° 31.75'	5. DATE TAKEN (day, month, year)	29/5/65	8. CORE LENGTH (cm)	6.9
3. LONGITUDE	76° 26.91'	6. WATER DEPTH (m)	?	9. CORER PENETRATION (cm)	106
10. SUBSAMPLE DEPTH IN CORE (cm)	0-7	7-10	10-17	17-20	20-27
11. WET UNIT WEIGHT (g/cm^3)	1.66	1.72	1.67	1.70	1.66
12. SPECIFIC GRAVITY OF SOLIDS	2.76				1.67
13. WATER CONTENT (% dry weight)	67.01	70.28	60.18	62.00	61.10
14. VOID RATIO	1.79				64.95
15. SATURATED VOID RATIO	1.85				
16. POROSITY (%)	64.1				
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(g/cm^2)				
23. COHESION NATURAL REMOULD	(g/cm^2)	27.14	27.14	46.12	37.96
	(g/cm^2)	8.15	2.67	5.42	5.42
24. SENSITIVITY	3	16	8	8	7
25. ANGLE OF INTERNAL FRICTION (°)					8
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (cm)					
29. REMARKS					

1874-1906: M

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CORE ANALYSIS SUMMARY

ENGINEERING PROPERTY TESTS

ANALYZED BY
COLEMAN,
HULL BODE,

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080-416

1. CRUISE NO.	262	4. SAMPLE NO.	"X"	7. TYPE CORER	Kullenburg	
2. LATITUDE	24 ° 31.75'	N	5. DATE TAKEN (Day, month, year)	29/5/65	8. CORE LENGTH (cm)	69
3. LONGITUDE	76 ° 26.97'	W	6. WATER DEPTH (m)	7	9. CORER PENETRATION (cm)	106
10. SUBSAMPLE DEPTH IN CORE (cm)	60-67	67-69				
11. WET UNIT WEIGHT (g/cm^3)	1.71					
12. SPECIFIC GRAVITY OF SOLIDS	2.75					
13. WATER CONTENT (% dry weight)	56.12					
14. VOID RATIO	1.51					
15. SATURATED VOID RATIO	1.54					
16. POROSITY (%)	60.1					
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH NATURAL	(g/cm^2)					
REMOULD	(g/cm^2)					
23. COHESION NATURAL	(g/cm^2)	105.74				
REMOULD	(g/cm^2)	10.82				
24. SENSITIVITY		10				
25. ANGLE OF INTERNAL FRICTION ($^\circ$)						
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (in)						
29. REMARKS WATER ON TOP OF CORE :						
						Sound Velocity Tests at 2, 12, 22, 32, 42, 52, 62 cm